



Consulting and Training | Reach New Heights

**Course Name**

# **Predictive Maintenance for Electrical & Industrial Equipment**

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**Sector Name**

Electrical Engineering

**Document Type**

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## Predictive Maintenance for Electrical & Industrial Equipment

### Course Introduction

This program introduces predictive maintenance strategies for electrical and industrial assets.

It focuses on using condition monitoring techniques to prevent unexpected failures.

Participants will learn how to extend equipment life and reduce operational downtime.

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## Predictive Maintenance for Electrical & Industrial Equipment

### Target Audience

- ✓ Maintenance Engineers and Technicians
- ✓ Reliability Engineers
- ✓ Industrial and Electrical Engineers responsible for equipment performance

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## Predictive Maintenance for Electrical & Industrial Equipment

### Learning Objectives

Equip engineers and technicians with knowledge and tools for predictive maintenance of electrical and industrial equipment, enhancing reliability, reducing downtime, and optimizing maintenance costs.

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## Predictive Maintenance for Electrical & Industrial Equipment

### Course Outline

#### ✓ DAY ONE

##### **Fundamentals of Predictive Maintenance**

- Introduction to Maintenance Strategies: Reactive, Preventive, Predictive
- Benefits and Challenges of Predictive Maintenance
- Overview of Electrical & Industrial Equipment
- Key Parameters for Monitoring Equipment Health
- Sensors and Data Acquisition Systems

##### **Learning Outcomes:**

- Understand different maintenance strategies
- Identify equipment suitable for predictive maintenance
- Know key parameters for condition monitoring

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## Predictive Maintenance for Electrical & Industrial Equipment

### Course Outline

#### ✓ DAY TWO

##### **Condition Monitoring & Diagnostic Techniques**

- Vibration Analysis for Rotating Equipment
- Thermal Imaging and Infrared Analysis
- Oil Analysis and Lubrication Monitoring
- Electrical Testing: Insulation, Motor Current Analysis, Partial Discharge
- Case Studies: Detecting Early Faults

##### **Learning Outcomes:**

- Perform condition monitoring using multiple diagnostic tools
- Interpret data to detect early signs of equipment failure
- Apply practical techniques to various industrial machines

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## Predictive Maintenance for Electrical & Industrial Equipment

### Course Outline

#### ✓ DAY THREE

##### **Implementation, Troubleshooting & Practical Workshop**

- Predictive Maintenance Program Design
- Data Analysis and Decision Making
- Troubleshooting Common Equipment Issues
- Hands-on Workshop: Using Sensors and Diagnostic Tools
- Safety Procedures and Standards
- Q&A and Open Discussion

##### **Learning Outcomes:**

- Implement a predictive maintenance program
- Make informed maintenance decisions based on diagnostic data
- Solve real-world problems in electrical and industrial equipment

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## Predictive Maintenance for Electrical & Industrial Equipment

### Confirmed Sessions

FROM	TO	DURATION	FEES	LOCATION
June 16, 2026	June 18, 2026	3 days	2450.00 \$	UAE , Dubai
Sept. 1, 2026	Sept. 3, 2026	3 days	2450.00 \$	KSA , Riyadh
Nov. 3, 2026	Nov. 5, 2026	3 days	2950.00 \$	England , London
May 10, 2027	May 12, 2027	3 days	2150.00 \$	Virtual , Online

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